

Center of Academic Excellence – Cyber Operations Program
Application

Name of Institution:

Mailing Address of Institution:

Department Submitting Application (e.g., Computer Science (CS), Electrical Computing Engineering (ECE)):

Nationally accredited? ☐ Yes ☐ No

Name of accreditation body:

Date of accreditation:

Regionally accredited? ☐ Yes ☐ No

Name of accreditation body:

Date of accreditation:

NOTE: Provide a copy of the Degree Programs related to the Cyber Operations curriculum to include a description of the degree, sample course schedule, and course descriptions for courses that contribute to meeting the academic requirements of the CAE-Cyber Operations Program.

Institution's Primary Point of Contact (POC):

Name:

Office Phone #:

Office Email Address:

Institution's Alternate POC(s):

Name:

Office Phone #:

Office Email Address:

Institution's Alternate POC(s):

Name:

Office Phone #:

Office Email Address:

Institution's Alternate POC(s):

Name:

Office Phone #:

Office Email Address:

University's President's Name and Official Email Address:

Describe how students who participate in the Cyber Operations curricula will be distinguished from other (non-Cyber Operations) students:

Provide a list of research topics believed to be related to the Cyber Operations Program in which faculty is currently involved:

Provide research topics believed to be related to the Cyber Operations Program in which students are currently engaged or could engage:

Describe Cyber Operations-related outreach efforts in which students are currently involved or could participate (e.g., Cyber exercises, volunteers at local K-12 schools, cyber camps, etc.):

Identify the names and number of Faculty who teach active Cyber Operations related program courses:

Our Institution understands and believes our program meet the criteria defined for the CAE-Cyber Operations program and have active courses that cover the mandatory knowledge units and at least 60% of the optional units to meet the academic content requirements. Our Institution agrees, as part of the application process, that their program will participate in an in-person curricula review of courses satisfying the mandatory and optional knowledge units as part of the application review and selection process. If designated as a CAE-Cyber Operations Institution, our institution agrees to participate in NSA-hosted Summer Seminars as part of the program.

Signature

Date

Continuation Page/Additional Comments:

CAE-CYBER OPERATIONS PROGRAM
COURSE ALIGNMENT TO KNOWLEDGE UNITS

<u>Mandatory Knowledge Units</u>	<u>Course #</u>	<u>Course Title</u>	<u>Instructor Name</u>
Low Level Programming			
Reverse Engineering			
Operating System Theory			
Networking			
Telecommunications			
Discrete Math			
Legal			
Overview of Cyber Defense			
Security Fundamental Principles			
Vulnerabilities			
<u>Optional Knowledge Units</u>	<u>Course#</u>	<u>Course Title</u>	<u>Instructor Name</u>
Programmable Logic Languages			
FPGA Design			
Wireless Security			
Virtualization			
Large Scale Distributed Systems			
Risk Management of Information Systems			
Computer Architecture			

<u>Optional Knowledge Units</u>	<u>Course#</u>	<u>Course Title</u>	<u>Instructor Name</u>
Microcontroller Design			
Software Analysis			
Software Development (Building Software)			
Embedded Systems			
Forensics			
Systems Programming (kernel level)			
Applied Cryptology			
SCADA Systems			
HCI/Usable Security			